(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 413 251 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication of patent specification: **02.11.94** (51) Int. Cl.5: **A61F 13/02**, A61F 5/443

(21) Application number: **90115238.9**

(22) Date of filing: **08.08.90**

(54) A continent ostomate bandage.

(30) Priority: **16.08.89 US 394703**

(43) Date of publication of application:
20.02.91 Bulletin 91/08

(45) Publication of the grant of the patent:
02.11.94 Bulletin 94/44

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

(56) References cited:
EP-A- 0 358 412
US-A- 3 339 546
US-A- 3 888 247
US-A- 4 176 664

(73) Proprietor: **E.R. SQUIBB & SONS, INC.**
P.O.Box 4000
Princeton New Jersey 08543-4000 (US)

(72) Inventor: **Castellana, Frank**
227 Stuart Road East
Princeton, NJ (US)
Inventor: **Ferguson, Keith**
231 Katherine Street
Scotch Plains, NJ (US)

(74) Representative: **VOSSIUS & PARTNER**
Postfach 86 07 67
D-81634 München (DE)

EP 0 413 251 B1

Description

The present invention relates to bandages, more particularly, to bandages for applications requiring multiple bandages per day to the same area of the skin.

New surgical procedures today for ostomy care have in some cases eliminated the need for external pouches. A pouch is formed internally by placing a U-bend in the terminal portion of the colon or intestinal track after surgical removal of a portion of the colon. The U-bend ends in a stoma or opening through the abdominal wall in the usual manner but the pouch formed internally by the U-bend is capable of storing a finite amount of discharge. The pouch is emptied four or five times a day by intubation. People who have undergone this type of surgery are often referred to as continent ostomates or ileostomates or urostomates.

The stoma will secrete a certain amount of mucous or discharge which is absorbed by a bandage placed over the stoma. The bandage must be removed and a new bandage applied each time intubation takes place.

A common bandage approach consists of taking a square or rectangular piece of acrylic adhesive, placing a piece of cotton or gauze in the center and placing this over the stoma or, alternatively, taping a piece of cotton or gauze over the stoma. The acrylic adhesive is not particularly friendly to skin upon removal and using this technique four or five times a day often results in skin irritation or even excoriation. A real need exists to provide a bandage for continent ostomates or others such as those suffering with mucous fistulas which bandage will not cause skin irritation, etc. when multiple bandages are used each day to the same area of the skin.

The present invention is directed to an improved bandage particularly suitable for continent ostomates or others such as those suffering with mucous fistulas. This invention provides a flexible, thin, hydrocolloid adhesive layer having a plastic or non-woven fabric layer affixed to one surface thereof and a superabsorbent pad, smaller than the adhesive layer affixed to the opposite adhesive surface. A porous cover pad covers the superabsor-bent pad and leaves a portion of the adhesive layer uncovered to form an adhesive border around the pads.

A protective cover covers the adhesive layer and pads. The protective cover comprises a plastic cover with a molded cavity having a depth and size to receive the superabsorbent pad and cover pad. Alternatively, the protective cover may be a layer of release paper.

In one embodiment, the hydrocolloid adhesive layer is about 0.2 to 0.3 mm (eight to twelve mils) thick, preferably about 0.25 mm (ten mils) thick, while the plastic or non-woven fabric layer is in the range of 12.7 to 76.2 μm (0.5 to 3 mils) thick but preferably is a 25.4 μm (1 mil) thick polyethylene film. The polyethylene layer may be of an opaque color such as flesh colored which may be more aesthetically pleasing and serves to hide blood stains or the like. Also, the polyethylene layer may be embossed.

Preferably, the border portion of the adhesive layer is substantially co-planar with the exposed surface of the cover pad. This can be accomplished by exposing the bandage covered with a layer of release paper to a vacuum. The vacuum removes air from around the pads and when the vacuum is removed the flexible adhesive layer is pressed up against the edges of the superabsorbent pad and the overlaying cover pad.

The invention further provides for placing a narrow strip of release paper along one edge of the adhesive layer before applying the protective cover or layer of release paper which extends over the strip as well.

FIG. 1 is a top planar view of the bandage of the present invention.

FIG. 2A is a cross sectional view of the bandage of FIG. 1 with protective cover and strip of release paper taken along the lines and arrows 2-2 in FIG. 1 before applying the vacuum while FIG. 2B is the same bandage after vacuum forming.

FIG 3 is an exploded isometric view of the bandage of FIG. 1.

FIG. 4 is a top planar view of the bandage of FIG. 1 with a layer of release paper partially peeled away.

FIG. 5 is a cross sectional view of the bandage of FIG. 2 with an alternate embodiment protective cover taken along the lines and arrows 2-2 in FIG. 1 with no vacuum forming.

FIGS. 6A and 6B show the bandages of FIG. 2B and 5, respectively, in cross section applied to the stoma of a user.

Referring now to the Figures, a bandage designated generally 10 is shown having an adhesive layer 12, a superabsorbent pad 14, a porous cover pad 16 and a protective cover 18. The adhesive layer 12 is a highly flexible, relatively thin, occlusive hydrocolloid adhesive layer with a backing layer 20 of polymeric material attached to one surface thereof.

To make the bandage as flexible as possible, it is desirable to keep the hydrocolloid layer with backing as thin as possible. A thickness of between 0.13 to 0.38 mm (5 mils and 15 mils) for the layer 12 is suggested. In the preferred embodiment, a thickness of between 0.2 to 0.3 mm (8 and 12 mils) is used with 0.25 mm (10 mils) being most preferable. The polymeric or non-woven fabric lay-

er 20 may be between 12.7 to 76.2 μm (0.5 mils to 3 mils). Suitable non-woven fabrics for use as layer 20 include polyester fibers, polypropylene fibers, nylon fibers, composite olefin fibers, and cellulose fibers. Preferably, layer 20 is a polymeric film such as polyethylene with 25.4 μm (1 mil) embossed polyethylene being most preferred. A suitable polyethylene film is sold under the trade name Tafaflex Code XIX available from Clopay U.S.A. The layer 12 is formed by extruding and is laminated to layer 20. Other polymeric backing films can be selected from the various materials commonly employed in ostomy and medical devices. For example, polyolefins such as polypropylene, ethylene acrylic acids, ethylene vinyl acetates, polyvinylchlorides, polyether sulfones, polyether ketones, polyether urethanes, polyurethanes, etc. can be used.

Unlike prior bandages used by continent ostomates and others requiring like bandages, the preferred adhesive layer 12 of the bandage 10 of this invention is a skin friendly non-acrylic material which is less irritating to the skin. The overall adhesive layer 12 of this invention is flexible and conformable to the body contours of the user and is comfortable for the user.

The adhesive layer 12 is formulated by blending one or more water soluble or swellable hydrocolloids with a polyisobutylene or a mixture of polyisobutylenes or a mixture of polyisobutylenes and other nonacrylic elastomers. Other materials can be included within the adhesive formulations such as mineral oil, tackifiers, antioxidants, cohesive strengthening agents, and pharmaceutically active materials such as antiinflammatory agents, antiseptics, or materials having skin healing or soothing properties. Suitable occlusive adhesive formulations are taught in US-A-3339546; US-A-4192785; US-A-4393080; US-A-4551490; and in US-A-4762738. As disclosed in these references, suitable water soluble and water swellable hydrocolloids include sodium carboxymethylcellulose, pectin, gelatin, guar gum, locust bean gum, gum karaya, and mixtures thereof. Suitable cohesive strengthening agents include water-insoluable cross-linked sodium caroxymethylcellulose, water-insoluble cross-linked dextran, etc. Suitable non-acrylic elastomers include butyl rubber and styrene radial or block copolymers such as styrene-butadiene-styrene (S-B-S) and styrene-isoprene-styrene (S-I-S) block type copolymers. Preferably, adhesive layer 12 is an adhesive available from the Convatec division of E.R. Squibb and Sons, Inc. used under the trade name System III adhesive and is a blend on a weight percentage basis of about 19% of a blend of polyisobutylenes (9.5% Vistanex® LM-MH and 9.5% Vistanex® L-100), about 14.5% mineral oil, and about 66.5% of an equal weight mixture of pectin, gelatin, and sodium carboxymethylcellulose.

In one embodiment, porous cover pad 16 is a 1.59 mm (1/16 inch) thick square or rectangular pad made of cellulose pulp (85 grams per square meter) and polyolefin fibers (22 gm^2) and covered by a non-woven cover layer (20 gm^2) on its top and bottom. The non-woven cover layer is an air-laid, wet-laid or spun-laid rayon, polyester or prefereably polypropylene. The pad 16 is available in its assembled state from Cellosoft Co. of Sweden and is sold as catalogue #202.150. Alternatively, a pad 16 having a pattern of holes 24 formed through the pad and comprising a combination of polypropylene and tissue can be used. The pad includes a non-woven polypropylene cover on top and bottom and is available from IFC Non Woven, Inc. of Jackson, Florida.

Superabsorbent pad 14 is also about 1.59 mm (1/16 inch) thick and made substantially the same as the pad 16 availabe from Cellosoft with superabsorbent powder added thereto. A suitable superabsorbent is sold as Salsorb 84 available from Allied Colloid. The superabsorbent comprises about 30% by weight of the pad 14. "Superabsorbents" are water insoluble materials which are capable of absorbing and retaining large amounts of water or other aqueous fluid in comparison to their own weight. Disposable goods manufactured using superabsorbents can be more comfortable, less bulky, and longer lasting than similar products made with traditional absorbents such as cellulose fibers.

The bandage whose cross-section is depicted in FIGS. 2A and 2B is made by extruding a 2.54 x 10^{-4} m (10 mil) layer of hydrocolloid adhesive and laminating it with a 2.54 x 10^{-5} m (1 mil) embossed polyethylene film on one side and a layer of release paper on the other for handling. The continuous web of combined hydrocolloid adhesive, laminated backing layer and release paper coming from the extruder moves past several work stations to form the bandage. In a continuous fashion the release paper is removed from the adhesive layer 12 to expose an adhesive surface. At a next station, superabsorbent pads 14 are placed on the adhesive layer and covered by cover pads 16. The pads 14 and 16 are pressed down onto the adhesive layer by a platen. Meanwhile, a continuous narrow strip of release paper 22 is applied to one edge of the adhesive surface. A layer of release paper 18 which covers the entire width of the adhesive layer including the pads and release paper strip 22 is applied. Alternatively, a single width of a layer of release paper can be applied over the adhesive. A score line can be applied along one edge of the bandage so that the release paper can be more easily removed. A suitable release paper is a silicone treated paper such as Polysilk S8003 available from HP Smith.

At the next work station, a vacuum is applied to a region surrounding the pads on each side of the web, i.e., to the polyethylene layer on one side and the layer of release paper on the other. The pads are contained within a vacuum chamber along with a border of adhesive with an area of polyetheylene on one side of the adhesive and an area of release paper on top of the exposed border area and the pads. The vacuum removes the air from around the borders of the pads of the bandage trapped between the adhesive layer 12 and the release paper 18. See the regions 30 around pad 14 and pad 16 in FIG. 2A. When the vacuum is removed the adhesive layer 12 which is more flexible than the release paper presses in against the edges of the pads to eliminate most of the region 30. See FIG. 2B. The border region 32 in FIG. 2B of the adhesive layer surrounding the pad 16 is substantially co-planar with the outwardly directed surface 34 of the pad 16 opposite the surface in contact with superabsorbent pad 14. A slight bulge at the center of the pads 14 and 16 may occur. The pads 16 assisted by the pattern of holes 24 conforms quite well to the adhesive layer. At the final work station, bandages are cut from the vacuum formed portions of the web. Preferably, each bandage is rectangular in shape with the smaller sides having curved edges 26 and 28. Two possible sizes are: 108 mm (4 1/4 inches) by 76.2 mm (3 inches) and 76.2 mm (3 inches) by 66.7 mm (2 5/8 inches). The superabsorbent pad 14 is 50.8 mm (2 inches) by 31.75 mm (1 1/4 inches) for the larger size and 31.75 mm (1 1/4 inches) by 25.4 mm (1 inch) for the smaller size bandage, while the larger size porous cover pad 16 is 63.5 mm (2 1/2 inches) by 44.5 mm (1 3/4 inches) and the smaller size is 44.5 mm (1 3/4 inches) by 38.1 mm (1 1/2 inches). The 1.59 mm (1/16 inch) thick superabsorbent pads 14 of the size given above are capable of absorbing 10-12 cc's of liquid. Of course, other size bandages and pads are possible.

The strip or tab 22 along one side of the bandage facilitates removal of the release paper 18. Since the strip is itself release paper, the strip and layer 18 are easily separated along this edge and then the layer 18 can be stripped away. The strip 22 is useful for holding one edge of the bandage until it is applied and then it is easily removed. FIG. 4 shows the release paper 18 partially peeled away to expose the strip 22. Alternatively, as mentioned before, a single layer of release paper could be applied over the pads and adhesive border area and then scored or partially cut through along one edge to assist in peeling away the release paper.

In use, the release paper layer 18 is peeled away starting at the overlap with strip 22. Then, gripping strip 22, the bandage is applied to the stoma or fistula with the pad 16 next to the stoma. While the pad 16 is somewhat absorbent it is also porous and allows air and fluid to pass through. Pad 16 functions to confine the discharge until it is absorbed by the superabsorbent, keep the superabsorbent from contacting the stoma at the fistula and present a dry surface to the stoma or fistula. The superabsorbent captures and fixes the fluid or discharge. The non-woven layer on the pad 16 next to the stoma or fistula remains dry. Since the fluid is captured by the superabsorbent, the fluid will not travel to the pad 16 from pad 14 even when the bandage is pressed.

The application of the vacuum to form the adhesive layer 12 to the pads 14 and 16 removes regions where fluid could collect without being absorbed and provides a flat surface for application to the skin and stoma. FIG. 6A shows what would happen if the pad of FIG. 2A were applied to the skin without first vacuum forming the bandage. Region 30 is formed into reservoirs 30a and 30b about the pads where fluid might collect. Using the vacuum formed bandage of FIG. 2B, FIG. 6B shows the reservoirs are reduced.

An alternate embodiment bandage designated generally 40 is shown in FIG. 5. It comprises the adhesive layer 12 with polymeric backing layer 20, superabsorbent pad 14 with non-woven pad 16. The protective cover 42 is a plastic part with a cavity formed by dish portion 44. The depth and size of the cavity is designed to accept the size and thickness of the pads 14 and 16 where vacuum forming of the bandage is not utilized. The protective cover 42 may be thermoformed polyethylene which is siliconized to make it releaseable from the adhesive border.

The bandage of this invention provides the advantage of a skin friendly adhesive coupled with a superabsorbent pad and a porous cover pad which insulates the stoma from the superabsorbent. The highly flexible and conformable hydrocolloid adhesive is friendly to the periostomal skin upon removal. Multiple bandages can be used each day. The superabsorbent on the other hand absorbs a relatively large quantity of liquid or discharge from the stoma. The bandage thereby forms a substitute for an external ostomy pouch and a good customized design for continent ostomates or others suffering with mucous fistulas.

When the bandage is exposed to a vacuum the adhesive layer is substantially coplanar with the exposed surface of the non-woven pad overlaying the superabsorbent pad. The bandage is easily applied to the stoma forming a low profile bandage when applied.

Claims

1. A continent ostomate bandage comprising a flexible, hydrocolloid, adhesive layer (12) having a plastic or non-woven fabric layer (20) attached to one side thereof, a superabsorbent pad (14), smaller in area than said adhesive layer (12), attached to said adhesive layer on a side thereof opposite from said plastic or non-woven fabric layer (20), a porous cover pad (16) larger in area than said superabsorbent pad (14) but smaller than said adhesive layer (12), said porous cover pad (16) overlaying said superabsorbent pad (14) and attached to said adhesive layer (12) around the borders of said superabsorbent pad (14), a portion of said adhesive layer (12) forming an adhesive border around said cover pad (16) and being adapted to adhere the bandage to the skin of said wearer, a plastic cover (18; 42) overlaying said porous cover pad (16) and attached to said border portion of said adhesive layer (12), said superabsorbent pad (14) and said porous cover pad (16) together having a predetermined thickness, said plastic cover (18; 42) comprising a molded cavity having a predetermined depth equal to or greater than said thickness and shaped to receive said pads (14, 16).

2. The bandage of Claim 1 wherein said surface of said border portion of said adhesive layer (12) opposite said plastic layer (20) and the surface of said porous cover pad (16) opposite said superabsorbent pad (14) are substantially co-planar.

3. The bandage of any one of claims 1 or 2 wherein said adhesive layer (12) comprises a layer between 0.13 to 0.38 mm (5 mils and 15 mils) thick and said plastic layer (20) comprises a layer between 12.7 to 76.2 µm (0.5 mils and 3 mils) thick.

4. The bandage of Claim 3 wherein said adhesive layer (12) comprises a layer between 0.2 to 0.3 mm (8 mils and 12 mils) thick and said plastic or non-woven layer (20) is substantially 25.4 µm (1 mil) thick.

5. The bandage of any one of Claims 1 to 4, comprising a layer of release paper (18; 42) which overlays said porous cover pad (16) and said border portion.

6. The bandage of Claim 5, comprising a strip (22) of release paper along an edge of said adhesive layer (12) and said layer of release paper (18; 42) overlays said strip (22).

7. The bandage of any one of Claims 1 to 6 wherein said adhesive layer (12) comprises a blend on a weight percentage basis of about 19% polyisobutylene, about 14.5% mineral oil, and about 66.5% of an equal weight of pectin, gelatin and sodium carboxymethylcellulose.

8. A method making a continent ostomate bandage comprising:
   placing a superabsorbent pad (14) on a larger sized layer (12) of relatively thin, flexible hydrocolloid adhesive having a plastic or non-woven fabric layer (20) attached to the opposite side; and
   placing a porous cover pad (16) over the superabsorbent pad (14) leaving a portion of the adhesive layer (12) as a border around the pads (14, 16); and
   placing a protective cover (18; 42) over said pads (14, 16) and adhesive layer (12).

9. The method of Claim 8 wherein said cover (18; 42) comprises a layer of release paper.

10. The method of Claim 8 or 9 wherein said adhesive layer (12) is between 0.2 to 0.3 mm (8 and 12 mils) thick.

11. The method of Claim 10 wherein said protective cover (18; 42) comprises a plastic covering having a cavity with depth and size to receive the thickness of said superabsorbent pad (14) and said porous cover pad (16).

12. The method of any one of Claims 8 to 11 wherein the formed combination is subjected to a vacuum and then said vacuum is removed whereby said border portion of said adhesive layer (12) is substantially co-planar with the outwardly directed side of said cover pad (20).

13. The method of Claim 12 wherein said protective cover (18; 42) comprises a layer of release paper (18; 42).

14. The method of Claim 13 wherein said method further comprises placing a strip (22) of released paper along one edge of said adhesive layer (12) and the step of placing a layer of release paper (18; 42) over said pads (14, 16) and adhesive layer (12) includes placing said layer (18; 42) over said strip (22).

Patentansprüche

1. Kontinenzostomiebinde, die aufweist:
   eine flexible, hydrokolloidale Klebstoffschicht (12), die eine Kunststoffschicht oder eine Vlies-

schicht (20) hat, die auf einer ihrer Seiten angebracht ist, ein äußerst stark absorbierendes Kissen (14), das eine kleinere Fläche als die Klebstoffschicht (12) hat und auf der Klebstoffschicht an einer Seite angebracht ist, die der Kunststoffschicht oder der Vliesschicht (20) gegenüberliegt, ein poröses Abdeckkissen (16), das größer als das äußerst stark absorbierende Kissen (14) aber kleiner als die Klebstoffschicht (12) ist, wobei das poröse Abdeckkissen (16) über dem äußerst stark absorbierenden Kissen (14) liegt und an der Klebstoffschicht (12) um die Ränder des äußerst stark absorbierenden Kissens (14) angebracht ist, einen Abschnitt der Klebstoffschicht (12), der einen Klebstoffrand um das Abdeckkissen (16) bildet und derart ausgelegt ist, daß die Binde haftend mit der Haut des Trägers verbindbar ist, eine Kunststoffabdeckung (18), die über dem porösen Abdeckkissen (16) liegt und an dem Randabschnitt der Klebstoffschicht (12) angebracht ist, wobei das äußerst stark absorbierende Kissen (14) und das poröse Abdeckkissen (16) zusammen eine vorbestimmte Dikke haben und die Kunststoffabdeckung (18) einen ausgeformten Hohlraum mit einer vorbestimmten Tiefe hat, die gleich oder größer als die Dicke der Kissen (14, 16) und zur Aufnahme des Kissens (14, 16) geformt ist.

2. Binde nach Anspruch 1, wobei die Fläche des Randabschnitts der Klebstoffschicht (12), die der Kunststoffschicht (18) gegenüberliegt, und die Fläche des porösen Abdeckkissens (16), die dem äußerst stark absorbierenden Kissen (14) gegenüberliegt, im wesentlichen koplanar sind.

3. Binde nach Anspruch 1 oder 2, wobei die Klebstoffschicht (12) eine Schicht mit einer Dicke zwischen 0,13 und 0,38 mm (5 und 15 mils) aufweist und die Kunststoffschicht (20) eine Schicht mit einer Dicke zwischen 12,7 und 76,2 µm (0,5 und 3 mils) aufweist.

4. Binde nach Anspruch 3, wobei die Klebstoffschicht (12) eine Schicht mit einer Dicke zwischen 0,2 und 0,3 mm (8 und 12 mils) aufweist und die Kunststoffschicht oder die Vliesschicht (20) eine Dicke von im wesentlichen 25,4 µm (1 mil) hat.

5. Binde nach einem der Ansprüche 1 bis 4 mit einer Schicht aus Trennpapier (18; 42) die über dem porösen Abdeckkissen (16) und dem Randabschnitt liegt.

6. Binde nach Anspruch 5 mit einem streifen (22) aus Trennpapier längs eines Randes der Klebstoffschicht (12), wobei die Schicht aus Trennpapier (18; 42) über dem Streifen (22) liegt.

7. Binde nach einem der Ansprüche 1 bis 6, wobei die Klebstoffschicht (12) ein Gemisch nach Gewichtsprozenten von etwa 19 % Polyisobutylen, etwa 14,5 % Mineralöl und etwa 66,5 % mit gewichtsmäßig gleichen Anteilen von Pektin, Gelatin und Natriumcarboxymethylcellulose aufweist.

8. Verfahren zum Herstellen einer Kontinenzostomiebinde durch:
Auflegen eines äußerst stark absorbierten Kissens (14) auf einer größer bemessenen Schicht (12) aus einem relativ dünnen, flexiblen, hydrokolloidalen Klebstoff, der eine Kunststoffschicht oder eine Vliesschicht (20) hat, die auf der gegenüberliegenden Seite angebracht ist,
Auflegen eines porösen Abdeckkissens (16) auf das äußerst stark absorbierende Kissen (14), wobei ein Teil der Klebstoffschicht (12) als ein Rand um die Kissen (14, 16) frei bleibt, und
Auflegen einer Schutzabdeckung (18; 42) über die Kissen (14, 16) und die Klebstoffschicht (12).

9. Verfahren nach Anspruch 8, wobei die Abdekkung (18; 42) eine Schicht aus Trennpapier aufweist.

10. Verfahren nach Anspruch 8 oder 9, wobei die Klebstoffschicht (12) zwischen 0,2 und 0,3 mm (8 und 12 mils) dick ist.

11. Verfahren nach Anspruch 10, wobei die Schutzabdeckung (18; 42) eine Kunststoffabdeckung mit einem Hohlraum aufweist, dessen Tiefe und Größe so bemessen sind, die Dicke des äußerst stark absorbierenden Kissens (14) und des porösen Abdeckkissens (16) aufzunehmen.

12. Verfahren nach einem der Ansprüche 8 bis 11, wobei die gebildete Kombination einer Vakuumbehandlung ausgesetzt und dann das Vakuum aufgehoben wird, wodurch der Randabschnitt der Klebstoffschicht (12) im wesentlichen koplanar mit der nach außen weisenden Seite des Abdeckkissens (20) gemacht wird.

13. Verfahren nach Anspruch 12, wobei die Schutzabdeckung (18; 42) eine Schicht aus Trennpapier (18; 42) aufweist.

14. Verfahren nach Anspruch 13, wobei ein Streifen (22) aus Trennpapier längs eines Rands der Klebstoffschicht (12) gelegt wird und beim Auflegen einer Schicht aus Trennpapier (18; 42) auf die Kissen (14, 16) und die Klebstoffschicht (12) die Schicht (18; 42) auf den Streifen (22) gelegt wird.

Revendications

1. Pansement pour stomisés continents, comprenant une couche adhésive hydrocolloïdale souple (12) à l'une des faces de laquelle est fixée une couche de matière plastique ou de tissu non-tissé (20), un tampon super-absorbant (14), de superficie moindre que ladite couche adhésive (12), fixé à ladite couche adhésive sur une face de celle-ci opposée à ladite couche de matière plastique ou de tissu non tissé (20), un tampon de couverture poreux (16) de superficie plus grande que ledit tampon super-absorbant (14) mais plus petite que ladite couche adhésive (12), ledit tampon de couverture poreux (16) recouvrant ledit tampon super-absorbant (14) et étant fixé à ladite couche adhésive (12) autour des limites dudit tampon super-absorbant (14), une partie de ladite couche adhésive (12) formant une limite adhésive autour dudit tampon de couverture (16) et étant conçue pour faire adhérer le pansement à la peau de l'utilisateur, une feuille protectrice de matière plastique (18;42) recouvrant ledit tampon de couverture poreux (16) et étant fixée à ladite parti-limite de ladite couche adhésive (12), ledit tampon super-absorbant (14) et ledit tampon de couverture poreux (16) ayant ensemble une épaisseur prédéterminée, ladite feuille de matière plastique (18;42) comprenant une cavité moulée de profondeur prédéterminée égale ou supérieure à ladite épaisseur et conformée de façon à recevoir lesdits tampons (14,16).

2. Pansement selon la revendication 1, dans lequel la surface de ladite partie-limite de ladite couche adhésive (12) opposée à ladite couche de matière plastique (20) et la surface dudit tampon de couverture poreux (14) opposée audit tampon super-absorbant (14) sont sensiblement coplanaires.

3. Pansement selon la revendication 1 ou 2, dans lequel ladite couche adhésive (12) comprend une couche d'épaisseur comprise entre 0,13 et 0,38 mm (entre 5 et 15 millipouces) et ladite couche de matière plastique (20) comprend une couche d'épaisseur comprise entre 12,7 et 76,2 µm (entre 0,5 et 3 millipouces).

4. Pansement selon la revendication 3, dans lequel ladite couche adhésive (12) comprend une couche d'épaisseur comprise entre 0,2 et 0,3 mm (entre 8 et 12 millipouces) et ladite couche de matière plastique ou non-tissée (20) a une épaisseur sensiblement égale à 25,4 µm (1 millipouce).

5. Pansement selon l'une quelconque des revendications 1 à 4, comprenant une couche de papier anti-adhérence (18;42) qui recouvre ledit tampon de couverture poreux (16) et ladite partie-limite.

6. Pansement selon la revendication 4 ou 5, comprenant une bande (22) de papier anti-adhérence le long d'un bord de ladite couche adhésive (12), et dans lequel ladite couche de papier anti-adhérence (18;42) recouvre ladite bande (22).

7. Pansement selon l'une quelconque des revendications 1 à 6, dans lequel ladite couche adhésive (12) comprend un mélange composé, en pourcentages pondéraux, d'environ 19% de polyisobutylène, environ 14,5% d'huile minérale, et environ 66,5% de poids égaux de pectine, de gélatine et de carboxyméthylcellulose sodique.

8. Procédé de fabrication d'un pansement pour stomisés continents, consistant :

   à placer un tampon super-absorbant (14) sur une couche (12), de plus grandes dimensions, d'adhésif hydrocolloïdal souple relativement mince à la face opposée duquel est fixée une couche (20) de matière plastique ou de tissu non-tissé; et

   à placer un tampon de couverture poreux (16) sur le tampon super-absorbant (14), en laissant une partie de la couche adhésive (12) former une limite autour des tampons (14,16); et

   à placer une feuille protectrice (18;42) par dessus lesdits tampons (14,16) et ladite couche adhésive (12).

9. Procédé selon la revendication 8, dans lequel ladite feuille protectrice (18;42) comprend une couche de papier anti-adhérence.

10. Procédé selon la revendication 8 ou 9, dans lequel ladite couche adhésive (12) a une épaisseur comprise entre 0,2 et 0,3 mm (entre 8 et 12 millipouces).

11. Procédé selon la revendication 10, dans lequel ladite feuille protectrice (18;42) comprend une

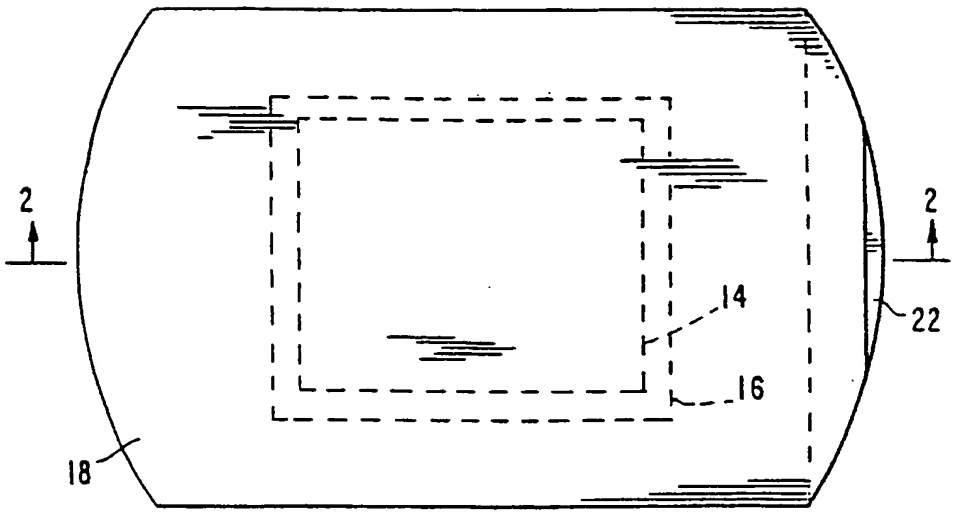
feuille de matière plastique comportant une cavité dont la profondeur et les dimensions lui permettent de loger l'épaisseur dudit tampon super-absorbant (14) et dudit tampon de couverture poreux (16).

12. Procédé selon l'une quelconque des revendications 8 à 11, dans lequel ledit procédé consiste en outre à mettre sous vide l'ensemble obtenu selon la revendication 11, puis à suppprimer ledit vide de façon que ladite partilimite de ladite couche adhésive (12) soit sensiblement coplanaire de la face dudit tampon de couverture (16) qui est tournée vers l'extérieur.

13. Procédé selon la revendication 12, dans lequel ladite feuille protectrice (18;42) comprend une couche de papier anti-adhérence (18;42).

14. Procédé selon la revendication 13, dans lequel ledit procédé consiste en outre à placer une bande (22) de papier anti-adhérence le long d'un bord de ladite couche adhésive (12), et la mise en place d'une couche de papier anti-adhérence (18;42) par dessus lesdits tampons (14,16) et ladite couche adhésive (12) comporte la mise en place de ladite couche (18;42) par dessus ladite bande (22).

FIG. 1



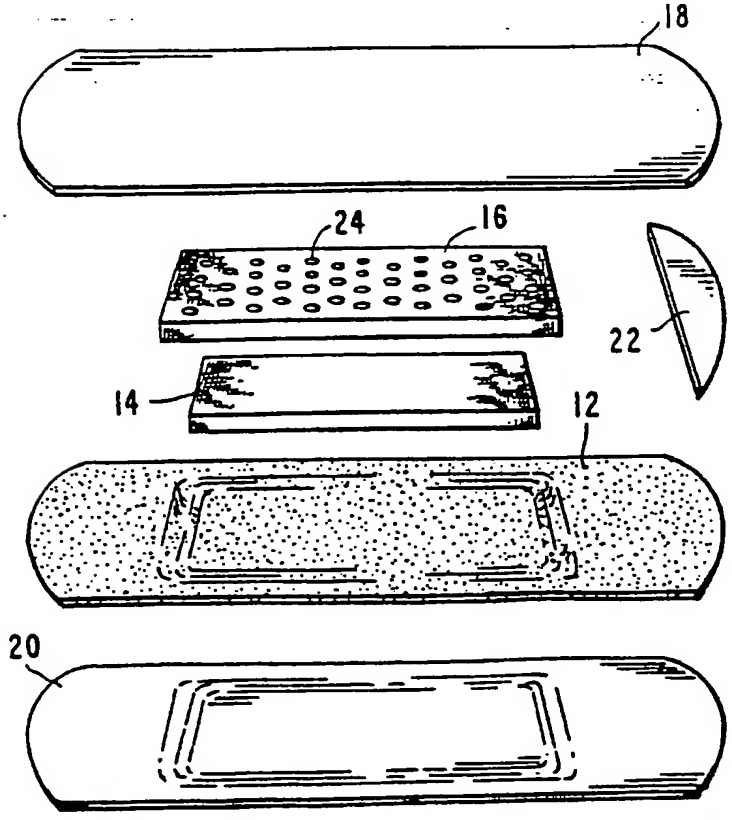
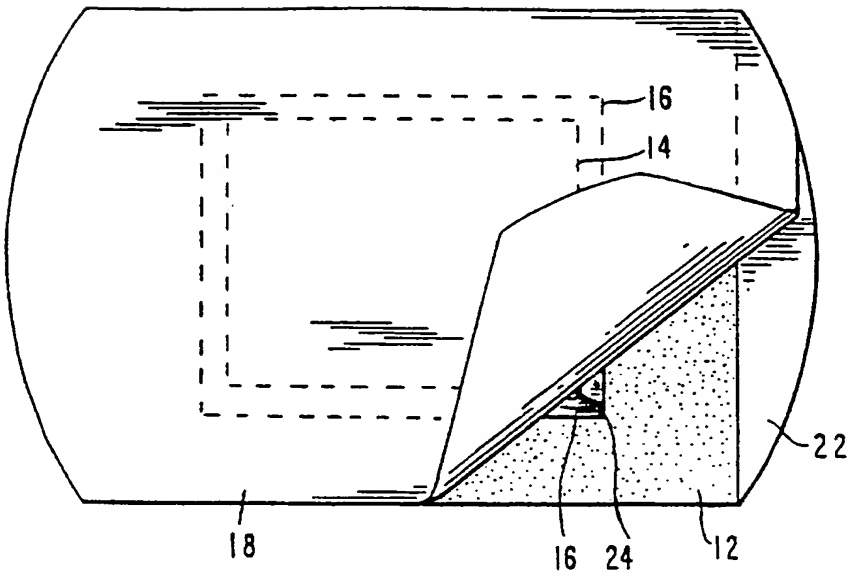


FIG. 3

FIG. 4



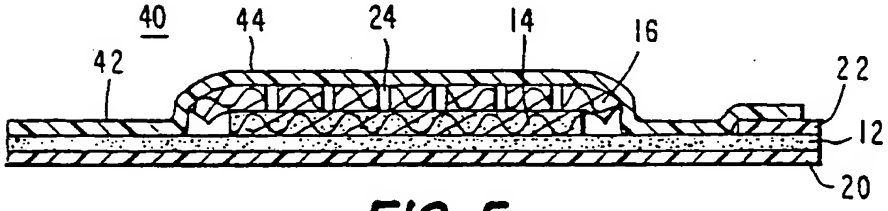


FIG. 5

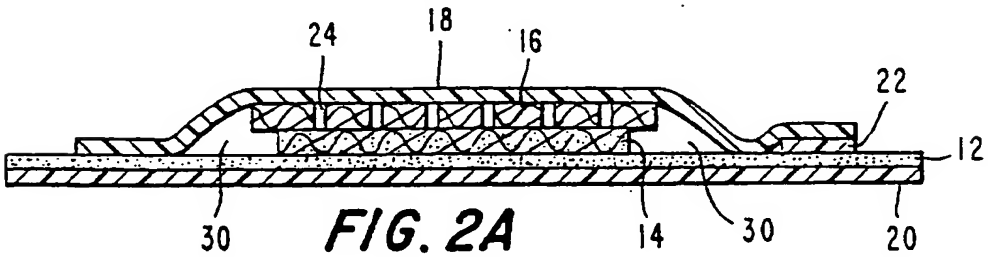


FIG. 2A

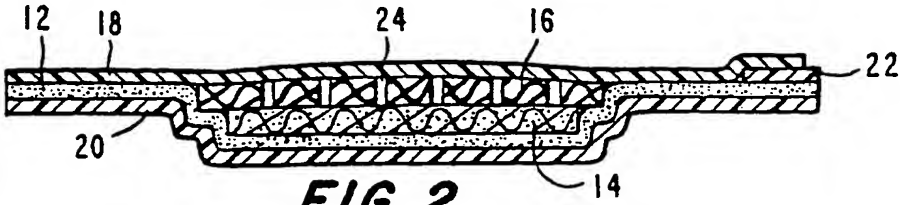


FIG. 2

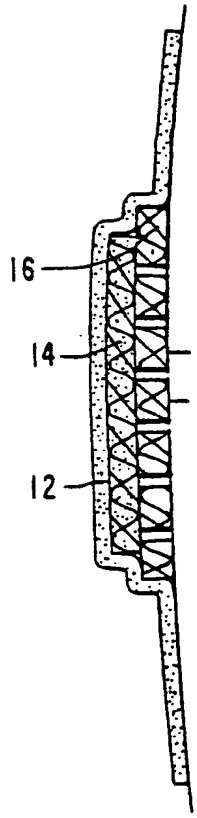


FIG. 6A

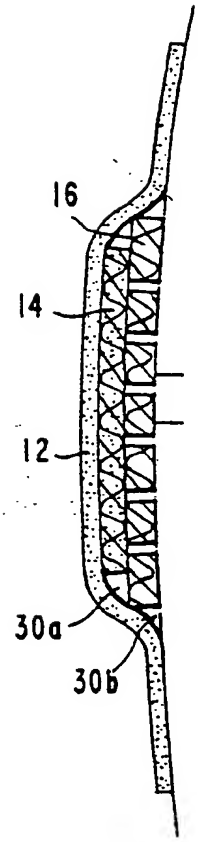


FIG. 6B